

UNITED STATES PATENT AND TRADEMARK OFFICE





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

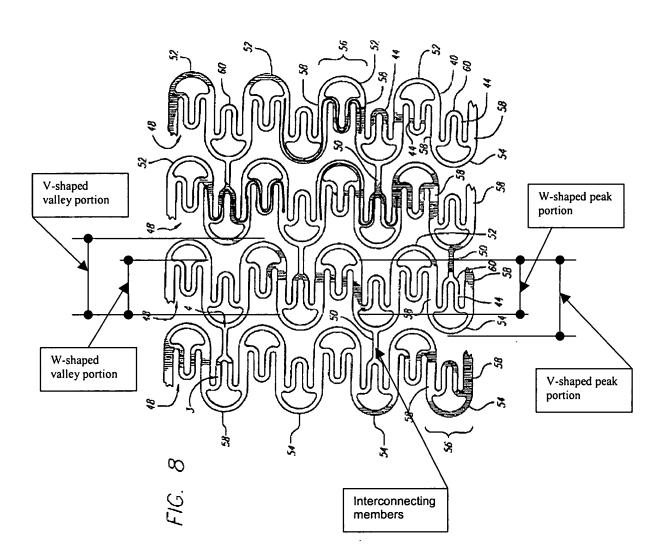
APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,474	174 12/28/2000		William J. Harrison	ACS-55966 (26991) 6584	
24201	7590	05/04/2004		EXAMINER	
FULWIDI HOWARD		ON LEE & UTECH	BUI, VY Q		
	6060 CENTER DRIVE				PAPER NUMBER
TENTH FLOOR LOS ANGELES, CA 90045				3731	,35
LOS ANOI	BOS MIOLLES, CA 70043			DATE MAILED: 05/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		l e					
	Application No.	Applicant(s)					
Office Action Comments	09/750,474	HARRISON, WILLIAM J.					
Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication and	Vy Q. Bui	3731					
The MAILING DATE of this communication app Period for Reply	ears on the cover sneet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 21 Ja	nuary 2004.						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1,6-11 and 13-35 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,6-11, 13-33, 35 is/are rejected. 7) ⊠ Claim(s) 34 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original of the correction is objected to by the Examiner in the correction is objected to by the Examiner in the correction is objected to by the Examiner in the correction is objected to by the Examiner in the correction is objected to by the Examiner in the correction in the correction is objected to by the Examiner in the correction in the correction is objected to by the Examiner in the correction in the correction is objected to by the Examiner in the correction in the correction in the correction in the correction is objected in the correction in the co	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

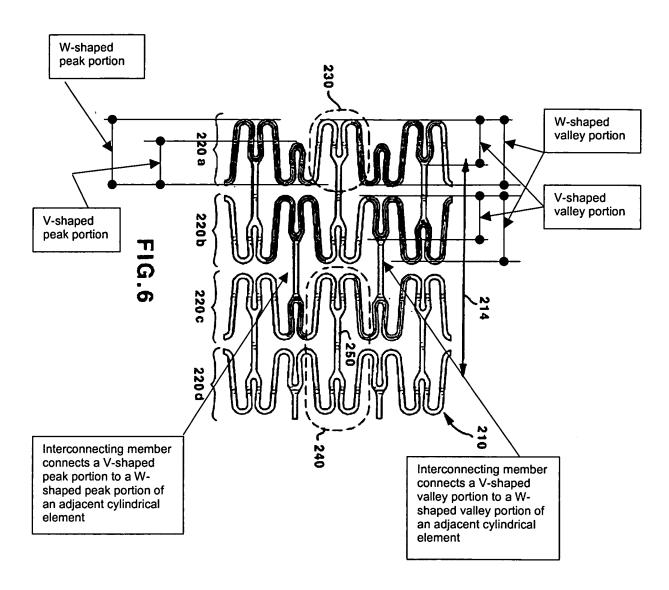
Art Unit: 3731

DETAILED ACTION



ALLEN's Fig. 8

Art Unit: 3731



DANG's Fig. 6

Art Unit: 3731

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1, 3, 6, 8-9, 11, 17-18, 21-23, 24-31 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by DANG et al (5,935,162).

As to claims 1, 3, 6, 8-9, 11, 17-18, 21-23 and 24-31, DANG (see Fig. 6 reproduced and shown in page 3) discloses a balloon assisted expanding stent or a self-expanding stent (col. 8, lines 31-35) comprising cylindrical elements of W-shaped valley and W-shaped peak/inverted W-shaped portions (in red color), V-shaped valley and V-shaped peak/inverted V-shaped portions (in green color), wherein W-shaped portions and V-shaped portions have different longitudinal lengths as recited in the claims. Two adjacent cylindrical elements are connected by inter-connecting members (in yellow) in a manner as recited in the claims.

As to claim 35, W-shape valley portions and W-shape peak portions are out of phase because W-shape valley portions and W-shape peak portions have different orientation.

3. Claims 1, 3-4, 6-11,13-19, 21-23, and 32-33 are rejected under 35 U.S.C. 102(e) as being anticipated by ALLEN et al (US 2001/0016770A1).

As to claims 1, 3-4, 6-7, and 21-22, ALLEN (see Fig. 8 reproduced and shown in page 2) discloses a balloon assisted expanding stent (see page 2, lines 1-6, section [0016]) or a self-expanding stent (see page 2, lines 7-10, section [0018]) comprising V-shaped and W-shaped peak portions, V-shaped and W-shaped valley portions, wherein W-shaped portions are smaller in length than the V-shaped portions as recited in the claims.

Art Unit: 3731

As to claims 8-10, ALLEN (see Fig. 8 reproduced and shown in page 2) discloses a stent comprising V-shaped and W-shaped peak portions, V-shaped and W-shaped valley portions, wherein W-shaped portions are smaller in length than the V-shaped portions as recited in the claims. Further as to claims 13-16 and 11, Fig. 8, page 3, shows valley portions and a connecting member as recited in the claims.

As to claims 17-19, ALLEN (Fig. 8 reproduced and shown in page 2) discloses each cylindrical element has at least 4 W-shaped valley portions adjacent to at least 4 V-shaped valley portion and W-shaped valley portions are smaller than V-shaped valley portions.

As to claim 23, see ALLEN's Fig. 8, page 2.

As to claims 32-33, see ALLEN's Fig. 8, page 2.

Notice that V-shaped and W-shaped portions can be peaks or valley portions dependent on one's consideration which side of the drawing is up.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over ALLEN et al (US 2001/0016770A1).

As to claim 20, ALLEN (Fig. 8) does not show 8 peak portions and 8 valley portions. However, it would have been obvious to one of ordinary skill in the art to provide 8 peak portions and 8 valley portions to ALLEN stent as claimed to make a stent having larger diameter to fit a larger blood vessel.

Art Unit: 3731

Allowable Subject Matter

Page 6

Claim 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed in the previous response (paper #24) have been fully considered but they are not persuasive.

Basically, the Applicant asserts that ALLEN reference and DANG reference identify peak portions, valley portions and interconnecting members differently from the way the Examiner does. In addition, the ALLEN V-shaped and the W-shaped portions may be not capable of nesting because of the existence of reinforcing members 44.

Notice that ALLEN and DANG stent structures are clearly shown in the drawings to clearly specify their inventions. Even ALLEN and DANG references identify and name various elements (cylindrical elements) and components (peak portions, valley portions) of the stents differently, the Examiner's rejection is considered proper and reasonable as long as the elements of ALLEN and DANG stents exist in drawings in the references as pointed out in the "Office Action". Further more, from ALLEN Fig. 8, because the members 44 are arranged longitudinally offset one to each other, under crimping, ALLEN V-shaped and the W-shaped portions are capable of being moved closer one to another to make nesting possible.

As long as the claims read on DANG and ALLEN references, a rejection should be made. Therefore, the above rejection based on ALLEN and DANG references remains effective.

Art Unit: 3731

Conclusion

Page 7

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vy Q. Bui whose telephone number is 703-306-3420. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J Milano can be reached on 703-308-2496. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vy Q. Bui

Primary Examiner

04/27/2004

Art Unit 3731